

Title (en)
Planar superconducting MRI magnet

Title (de)
Flacher supraleitender Magnet für die Bildgebung mittels magnetischer Resonanz

Title (fr)
Aimant plan supraconducteur pour l'imagerie par résonance magnétique

Publication
EP 0837339 A1 19980422 (EN)

Application
EP 97308349 A 19971021

Priority
US 73457296 A 19961021

Abstract (en)
A planar magnetic resonance imaging (MRI) magnet having a superconductive coil assembly including a toroidal-shaped coil housing (14) which surrounds a bore (16), has a longitudinal axis (18), and contains at least three concentric, annular-shaped superconductive coils (28,30,32) coaxially aligned with the axis. The coils produce a magnetic resonance imaging volume (34) having a centre (36) located outside the bore. Preferably, the bore is generally completely filled with magnetic material (38), and the magnetic resonance imaging volume is located completely outside the bore which provides for improved patient and physician access during MRI-guided biopsy as well as during MRI imaging.

IPC 1-7
G01R 33/38; **G01R 33/3815**

IPC 8 full level
A61B 5/055 (2006.01); **G01R 33/38** (2006.01); **G01R 33/3815** (2006.01); **H01F 6/06** (2006.01)

CPC (source: EP US)
G01R 33/3808 (2013.01 - EP US); **G01R 33/3815** (2013.01 - EP US)

Citation (search report)

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- [X] EP 0400922 A1 19901205 - OXFORD ADVANCED TECH [GB], et al
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Designated contracting state (EPC)
FR GB NL

DOCDB simple family (publication)
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DOCDB simple family (application)
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